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2-oligo dimers 2-oligo bulges 2-oligo internals

bulge loops

of of

Number Number

Number

internal

U

degrees разев bases bases PMo1 TOME! Analysis of "table1 (slmb primer cyt L)" a 20-mer DNA Oligonucleotide(Sense) 25.0 9.0 0.0 1000.0 AC Parameters TAA Hairpin loop stem length Formamide concentration Analysis 00000 concentration G Temperature concentration Palindrome length 3' End length Run length Structoral Analysis Summary / palindromes Delta Probe Salt Ü nMo1/A260 5.3 nMc1/A260 32.5 ug/A260 45.0 % -28.7 kCal/Mc1 kCal/Mol kCal/Mol degrees degrees degraes degrees hairpin loops 6101.0 58.0 -140.6 48,8 66.2 -368.0 Oligonucleotide Analysis CCT οĒ Number Number weight The Charmodynamic O 3. End Delta Absorbance Absorbance Molecular Filter Im AT+GC Tm N 4 GC Th Percent Delta H Delta G Delta 3

degrees bases bases bases bases PMo1 빠 Analysis of "table 2 (slmb primer cyt H)" a 20-mer DNA Oligonucleotide (Antisense) (1) 25.0 0.6 1000.0 0.0 LL Analysis Parameters ATC 000 Hairpin loop stem length c∥Formamide concentration 00000 Delta G Temperature Concentration Concentration Palindrome length 2-oligo dimera 2-oligo bulges 2-oligo internals 63.2 degrees C Salt concentry
72.3 degrees C Formamide concentry
64.0 degrees C 3' End length
5.6 mMol/A260 Run length
34.8 ug/A260 Palindrome len Structural Analysis Summary / palindromes Probe -164.6 kcal/Mol -5.1 kcal/Mol KCB1/MO1 70.8 degrees CCT internal loops hairpin loops bulge loops base runs 60.0 Oligonucleotide Analysis 6220.1 -419.9 dimers ο£ of of O. Jo Number Number Number Number Number Molecular weight Tm thermodynamic 3' End Delta Absorbance Absorbance Perdent GC Filter Im D AT+GC TO SC P Ü Dolta H Delta 9 Delta

3 Analysis of "table 3 (slmb primer ITS2 F)" a 20-mer DNA Oligonucleotide(Sense) HU TIA TIC ACC CTG TGA ACT L)

degrees bases bases bases pMol 配列 25.0 0.6 1000.0 4 80 W Parameters Hairpin loop stem length Formamide concentration Analysis Delta G Temperature concentration concentration Run length Palindrome length 3' End length Probe Salt 64.2 degrees C FC 56.0 degrees C 3. 5.6 nMol/A260 R 34.0 ug/A260 P 40.0 % טטט kcal/Mol 51.3 degrees 6098.0 -137.7 -365.8 Oligonucleotide Analysis Molecular weight In thermodynamic 3' End Delta Absorbance Absorbance Percent GC Filter Tm AT+GC Tm Delta H Delta B SC HE Delte G

000 2000 internals 2-oligo dimers 2-oligo bulges 2-oligo interna Structural Analysis Summary / palindromes internal loops hairpin loops bulge loops base runs dimers ΟĒ of. οľ oF õ Number Number Number Number Number

(1) Analysis of "table 4 (simb primer ITS2-H)" a 24-mer DNA Oligonucleotide(Antisense) CHG TGA HU ď CAT GA Ū TGC CIC ATA Ŋ

degrees bases bases bases bases pMol TOME. 25.0 0.6 1000.0 0.0 Analysis Parameters Hairpin loop stem length Formamide concentration 3' End length G Temperature concentration concentration Palindrome length Run length Delta Probe Salt υυ UU nMo1/A260 kCal/Mol -5.2 kCal/Mol kcal/Mol dogrees degrees degrees degreas ug/A260 n e -169.5 -442.0 Oligonucleotide Analysis weight In thermodynamic U 3' End Delta Absorbance Absorbance Percent GC Molecular Filter Tm AT+GC TH Delta H Delta G Delta S GC Tm

00000 2-oligo incernals Structural Analysis Summary 2-oligo dimers 2-oligo bulges palindromes internal loops hairpin loops of bulge loops base runs dimers of Number of

Number Number

Number

Number

000

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	Analysis	of "table 5	rd quis)	imer pro-L	Analysis of "table 5 (slmb primer pro-L) " a 24-mer DNA Oliconneleotide (Serse)	Oligopheleoti	(do (goneo)	
J -	CAG	TCT	CGT	CAA	CAG TCT CGT CAA ACC AAG TCA AAC	TCA	AAC	m
Molecular The thermod Filter The ArfG The Absorbance Absorbance Percent GC Delta G Delta G Delta G Delta G	Molecular weight The thermodynamic Filter The GC The ArtGC The Absorbance Percent GC Delta G Delta H Belta H	011gonucleotide Analysis eight 7354.9 namio 60.2 72.2 70.0 4.3 31.4 45.8 -36.5	7354.9 7354.9 67.8 de 60.2 de 72.2 de 70.0 de 4.3 mM 31.4 ug 45.8 & -36.5 kC(-169.9 kC(19513 7354.9 degrees C 67.8 degrees C 72.2 degrees C 70.0 degrees C 4.3 nMol/A260 31.4 ug/A260 45.9 & -36.5 kCal/Mol -169.9 kCal/Mol	Analysis Related Temperature 67.8 degrees C Probe concentration 60.2 degrees C Salt concentration 72.2 degrees C Formamide concentration 70.0 degrees C 3' End length 4.3 mAo./A.260 Run length 31.4 ug/A.260 Run length 45.8 % Halrpin loop stem length 69.9 kCal/Mol	Analysis Parameters atture attion sentration igth	25.0 degrees C 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases	U ស ស ស ស ស ស ស

	0 / 0	0 / 0	0 / 0
Structural Analysis Summary	palindromes	2-oligo dimers	2-oligo bulges 2-oligo internals
Structural A	of base	of dimers	of internal loops /
	Number	Number	Number

Ö

Percent GC Delta G Delta H Delta S

(1) Analysis of "table 6 (slmb primer Dloop-H)" a 23-mer DNA Ollgonucleotide (Antisense) CAC AAA CA ATC ATC ATA 5

25.0 degrees basaa bases bases bases 0.6 pMol HMO. 10001 0.0 Analysis Parameters Hairpin loop stem length Formamide concentration 3' End length Delta G Temperature concentration concentration Palindrome length Run length Probe Salt Ü ü degrees C nMol/A260 -4.6 kcal/Mol -32.9 kcal/Mol degrees degrees kcal/Mol degrees ug/A260 53.6 4.3 34.8 -163.3 66.4 7033.7 Oligonucleotide Analysis -429.7 Molecular weight thermodynamic 3' End Delta G Absorbance Percent GC Absorbance Filter Tm AT+CC Tm CO FI Delta G Dolta Delta

000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals Structural Analysis Summary / palindromes internal loops halrpin loops bulge loops base runs dimers ot ōŧ jo ΟĒ ď Number Mumber Number Number

		n	
-	Se) 1	25.0 degrees 0.6 pMol 1000.0 mMol 0.0 % 7 bases 4 bases 8 bases 3 bases	
ė	Sens —	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
"table 7 (slmb primer ROD-L)" a 20-mer DNA Olicomicleo+ide ()	CAN	Analysis Parameters atture attion attion entration gth tem length	
, c e c .		L'anie	
C C	CGC CGT	s Pa	0 0 /
0110	Ü	lre on on rati	00000
DWA	υ	(IHHHO Em (. 13
mer	Ü	degrees C Probe concent degrees C Salt concent degrees C Salt concent degrees C Salt concent adgrees C Salt concent degrees C Salt Salt Salt Salt Salt Salt Salt Salt	Structural Analysis Summary runs runs oin loops 1 2-oligo dimers 1 loops 1 2-oligo bulges 1 nal loops / 2-oligo internals
20-	0	con con con diale	Sum comes dim bul
. (- 	T.J	67.4 degrees C Probe conc 59.8 degrees C Salt conc 72.3 degrees C Salt conc 5.3 adgrees C Salt conc 5.3 adgrees C Formamide 5.3 adol/A260 Run length 60.0 % Palindrome 54.7 kCal/Mol 54.3 kCal/Mol	Analysis Summary / Palindromes / 2-oligo dimers / 2-oligo bulges / 2-oligo intern / 2-oligo intern
I-do	Q	00000	Ana 1 Pa 1 2-0 2-0
er R	d	degrees degrees degrees mrol/A26 ug/A260 kcal/Mol kcal/Mol esu	ral us
prin	Ü	1	loop loop
i.i	RI	6189.0 67.4 67.4 59.8 72.3 64.0 60.0 60.0 134.7 -394.4	Structura base runa hairpin 1 dimera bulge loo internal
8	H	61 61 61 61 61 61 61 61 61 61 61 61 61 6	of base roof dimers of dimers of bulge
le 7	O	106	0 0 0
"tal		1601	Structural Number of base runs Number of hairpin loops Number of dimers Number of bulge loops Number of internal loops
3 of	Ü	0 L	<u> </u>
Analysis of	S CCT GGT AGA GTT	Molecular weight 6189.0 The thermodynamic 67.4 Filter In 67.4 * GC Im 72.3 An+GC Im 72.3 Absorbance 5.3 Percent GC 60.0 Delta G -34.7 Delta S -154.3	
Ana.	-	Molecular wa Tm thermodyn Filter Jm GC Tm AT+GC Tm Absorbance Absorbance Absorbance Percent GC Delta H Delta H	
Ĺ	IJ	Molecular Th thermod Filter In GC In Arec In Absorbance Percent GC Delta H Delta H	
		Molecular The them Filter The GC The Ansecher Absorber Percent Delta G Delta H Delta S 3: End D	
-			

m m		
Antisense	25.0 degraes 25.0 degraes 0.6 pMol 0.0 % 1 pases 4 bases 8 bases 3 bases	
T GCC	Paramet	0 000
a 22-mer DNA Oligonucleotide (A	1 14440 dm }	Analysis Summary palindromes 2-oligo dimers 2-oligo bulges 2-oligo internals
Analysis of "table 8 (slmb primer ROD-H)" a 22-mer DWA Oligonucleotide (Antisense) CGT GTT CCT TAT CAT TGT GCC T 3	degrees C degrees C degrees C degrees C nwol/A260 ug/A260 t kCal/Mol kCal/Mol	77
GTT.	Oligonucleotide Analysis eight 6738.4 numic 65.8 66.4 69.5 64.0 5.2 34.9	Structurs Number of base runs Number of hairpin loops Number of dimers Number of internal loops
Analysis of 1	Molecular weight The thermodynamic Filter The Forth Artec The Absorbance Percent GC Percent GC Dolta G Dolta G Dolta S 3' End Dolta G	
-,	A A A A A A A A A A A A A A A A A A A	

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(1) Analysis of "table 9 (LRMB primer 16S-L)" a 21-mer DNA Oligonucleotide(Sense) CHC TLL ATG AGT CCA CAG CAC 1

dagrees basea bases bases рмој mMo1 25.0 9.0 0.0 1000.0 Parameters Hairpin loop stem length Formamide concentration Ana.lysis concentration G Temperature concentration Palindrome length 3' End length 69.9 degrees C Cormanide 62.0 degrees C 3' End leng 5.1 nMol/A260 Run length 33.0 ug/A260 Palindrome Delta Probe Salt ט ט -31.9 kCal/Mol -152.3 kCal/Mol -396.4 eu degrees dagrees 47.6 Oligonucleotide Analysis weight To thermodynamic 3. End Delta Absorbance Absorbance Percent GC Molegular Filter Im AT+GC ID Delta G GC TH Delta Delts

000 0 0000 2-oligo dimers 2-oligo bulges 2-oligo internals Analysis Summary / palindromes internal loops hairpin loops bulge loops Number of base runs dimers o t of of 0. Number Number Number Number

-4.9 kCal/Mol

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Structural

Analysis of "table 10 (LRMB primer 165-H)" a 18-mer DNA Oligonucleotide (Antisense) CAG AGT AGC TIC TAG TCG Ŋ)

25.0 degraes bases bases bases bases pMol mMol 0.6 0 Parameters 43.6 degrees C Formamide concentration 64.5 degrees C Formamide concentration 54.0 degrees C 3' End length 5.7 nMc1/A260 Run length 51.8 ug/A260 Palindrome length 50.0 % Halrpin loop stem length -25.3 kCal/Mol Hairpin loop stem length Delta G Temperature Probe concentration -123.0 kcal/Mol -4.9 kcal/Mol degrees 5594.7 Oligonucleotide Analysis Molecular waight Im thermodynamic Ů 3' End Delta Absorbance Absorbance Percent GC Filter Tm AT+GC TR Delta G 1 3 P Delta

Number of base runs / palindromes 0 / 0
Number of hairpin loops / 2-oligo dimers 0 / 0
Number of dimers / 2-oligo dimers 0 / 0
Number of bulge loops / 2-oligo bulges 0 / 0
Number of internal loops / 2-oligo internals 0 / 0

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Analysis of "table 11 (LRMB primer 125-L)" a 19-mer DNA Oligonucleotide(Sense) (1) AGA CHC TCG CO Ŭ TIC CTA IJ

dagrees bases bases bases pMol mMo1 Parameters 25.0 0.6 0.0 400 Hairpin loop stem length Formamide concentration Ana.lysis concentration Delta G Temperature concentration Palindrome length 3' End length Run length Probe Salt U υÇ nMo1/A260 -4.6 kcal/Mol kcal/Mol kcal/Mol degrees ug/A2 60 degrees degrees degraes 60.0 6.0 34.6 57.9 54.5 -31.8 -146.6 5779.8 62.1 Analysis -378. Oligonucleotide waight thermodynamic Ü 3' End Dalta Ç Absorbance Absorbance Moleculer AT+GC TE Percent S F Delta G Delta H Dolta

0 000 00000 internals 2-oligo dimers 2-oligo bulges / palindromes 2-oligo internal loops hairpin loops bulge loops Number of base runs dimers of o f O. Ç Number Number Number Number

Structural Analysis Summary

degrees 3 bases bases bases bases mMo 1 Analysis of "table 12 (LRMB primer 125-H)" a 23-mer DNA Oligonucleotide(Antisense) pMol 25.0 9.0 1000.0 0.0 4 Analysis Parameters CTT 000 Rairpin loop stem length Formamide concentration 0000 CAC concentration Delta G Temperature concentration Palindrome length internals 2-oligo dimers 2-oligo bulges 2-oligo interna 3' End length Structural Analysis Summary Run length / palindromes CCT Probe Salt 63.2 degrees C F 75.3 degrees C F 72.0 degrees C 3 5.1 nMol/A260 R 34.9 ug/A260 R 56.5 % ATC -38,9 kCal/Mol -174,6 xCal/Mol -5.1 kCal/Mol degrees hairpin loops bulge loops 9 base runs -448,9 9.07 ATC Analysis dimera of of ٥f Oliganucleotide TCC Number Number Number Number Molecular weight Tm thermodynamic Ü 3' End Delta Absorbance Absorbance Percent GC Filter Tm AT+GC TB Delta 9 S GC Th Dolta Delta S

internal loops

οf

Number

Analysis of "table 13 (DTMB primer 165-H)" a 20-mer DNA Oligonucleotide(Antisense) DH UHU H Ŭ よりつ CTC

degrees bases bases bases bases 是(0) DMO1 0.6 25.0 1000.0 4.00 U Parameters Hairpin loop stem length Formamide concentration Analysis Delta G Temperature concentration concentration Palindrome length 3' End length Run length Probe Salt ט ט DM01/A260 υ 6.1 nMc1/A260 37.2 ug/A260 70.0 % -37.1 KCal/Mo1 -157.8 kCal/Mo1 kcal/Mol degrees degrees degrees degrees 64.1 68.0 -7.9 -39B.9 6052.0 76.4 Oligonucleotide Analysis Molecular weight thermodynami Delta Absorbance Absorbance AT+GC TH Delta H Delta S Percent 8 1 1 1 Delta G Filter

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2-oligo dimers 2-oligo bulges 2-oligo internals

internal loops

hairpin loops bulge loops

dimers

Number Number Humber

ů. ů of ō

Number

base runs

Structural Analysis Summary

palindromes

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degrees Dases bases bases bases 3 pMol mMo1 (DTMB primer 16s-L)" a 22-mer DNA Oligonucleotide (Sense) 0.6 25.0 8 Parameters GTT 0 000 Hairpin loop stem length Formsmide concentration 3' End length Analysis TOI 00000 G Temperature concentration concentration Palindrome length 2-oligo bulges 2-oligo internals Structural Analysis Summary 2-oligo dimers ATG Run length / palindromes d C Probe C.
Jees C Salt C.
Jegrees C Form
Mol/A2f CTT 67.9 degrees 6 60.3 degrees 6 69.5 degrees 64.0 degrees 64.0 degrees 6.9 nMol/A266 -36.9 kCal/Mol -171.5 kCal/Mol -4.9 KCA1/Mol internal loops hairpin loops bulge loops 110 base runs 33.3 45.5 -444.2 6756.4 Oligonucleotide Analysis dimers U U οĒ οţ Analysis of "table 14 οľ COL Number Number Number Number AAA The thermodynamic Molecular weight Ü 3' End Delta Absorbance Perdent GC Absorbande Filter Tm AT+GC Im Delta H Delta G **最 35 事** Delta Ŋ

of

Number

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2-oligo bulges 2-oligo internals

of incernal loops

Number

2-oligo dimers

Structural Analysis Summary

/ palindromes

hairpin loops bulge loops

Ä οĘ ŏ

dimers

οf

base runs

Number Number Number Number

00000

(1) Analysis of "table 15 (DIMB primer 12S-H)" a 22-mer DNA Oligonucleotide(Antisense) CHH TIC CTA HU Ü CHH ひむひ CAT 5

degrees bases bases bases bases mMo1 pMol 0.6 25.0 0.0 Parameters Hairpin loop stem length c|Formamide concentration Analysis Delta G Temperature concentration concentration Palindrome length 61.2 degrees C Formamide concenta 71.3 degrees C Formamide conc 66.0 degrees C 3' End length 5.3 nMol/A260 Run length 35.5 ug/A260 Palindrome ler 50.0 % Probe -37,5 kCal/Mol -172.0 kCal/Mol kcal/Mol 68.8 degrees -444.3 6723.4 Oligonucleotide Analysis Molecular weight To thermodynemic Ü 3' End Delta Absorbance Absorbance Percent GC Filter Tm AT+GC TH 9 1 Delta G Dolta K Dolta

degrees bases bases bases bases pMol mMo1 Analysis of "table 16 (DPMB primer 12S-L)" a 19-mer DNA Oligonucleotide (Sense) 25.0 c TCA 000 60.0 degrees C Formamide concentration
60.0 degrees C 3' End length
5.7 nMol/A260 Run length
57.9 %
-33.9 kCal/Mol
152.5 kCal/Mol Analysis 0000 G Temperature concentration GTA 2-oligo internals Structural Analysis Summary Z-oligo dimers Z-oligo bulges / Palindromes ひじじ Delta Probe 65.8 degrees 58.2 degrees kCal/Mol internal loops hairpin loops bulge loops base runs Oligonucleotide Analysis dimers ATC Number of of οĒ o. Jo Number Митрек Number Number TCT Molecular weight Tu thermodynemic Ø 3' End Delta Absorbance Absorbance Percent GC Ar+GC Tm Dalta H Delta G Delta s Filter

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ide (Antisense)	3 c 3 c	25.0 degrees 0.6 pMc1	7 bases 4 bases 8 bases	3 bases		
5 GGC GAT TCT ACG GCA CONTINENTS OF CONTROL	oight Analysis SSGB.3 Delta G memor Parameters	12.8 degrees C Probe concentration	5.1 nMol/A260 Run length 33.3 ug/A260 Fallndrome length 71.4 % Hairpin loon erem	-186.4 kCal/Mol -186.4 kCal/Mol -468.6 eu -12.8 kCal/Mol	ps /	Number of bulge loops / 2-oligo bulges 0 / 0 Number of internal loops / 2-oligo internals 0 / 0
5 ' GGC	1 5 5	Filter Te FGC Te AT+GC Te Absorbance	Absorbance Percent GC Delta G	Delta H Delta B [3' End Delta G	אנים אינה אינה אינה אינה אינה אינה אינה אינה	ION

(1) Analysis of "table 18 (TCMB primer 165-L)" a 22-mer DNA Oligonucleotide(Sense) GTC TAT CHC CHC CIG AAA S

degrees bases bases bases bases pMol mMo) 25.0 0.0 1000.0 Parameters Hairpin loop stem length Formamide concentration Analysis G Temperature concentration concentration Palindrome length degrees C Salt concentrated George C Formanide Conceptages C 3' End length nMol/A260 Run length Delta c | Probe KCal/Mol kCal/Mol KCal/Mol degroos ug/A260 9 40.9 67.6 62.0 4.7 31.7 -153.3 6758.5 60.7 -4.1 53.1 -400.5 Analysis Oligonucleotide weight Tm thermodynamic O 3' End Delta Absorbance Absorbance Percent GC Molecular Filter Tm Ħ Delta H Delta S 90 14 Dalta G AT+GC

Structural Analysis Summary / palindromes base runs

0 000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals internal loops hairpin loops bulge loops dimers Number of of õ Number of Number of Mumber Number

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Analysis of "table 19 (TCMB primer 12S-H)" a 22-mer DNA Oligonucleotide(Antisense) HUUU HHC CAG ATT S

dagrees bases bases bases bases pMo1 mMo1 25,0 0.6 0.0 Analysis Parameters Kairpin loop stem length degrees C Formamide concentration degrees C 3' End length nMol/A260 Run length Delta G Temperature Probe concentration concentration Palindrome length Salt U Ü 74.6 degrees C 67.0 degrees C 75.0 degrees C 70.0 degrees C 5.1 nMol/A260 34.2 ug/A260 59.1 % -7.9 kcal/Mol -176.0 xcal/Mol 6671.4 Oligonnelentide Analysis Molecular weight Im thermodynamic Ü 3' End Delta Absorbance Absorbance Percent GC Filter Im AT+GC Th GC TH Delta H Delta 9 Delta

000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals / palindromes internal loops hairpin loops bulge loops base runs dimers o f οĘ o. Number Number Number Number Number

Structural Analysis Summary

degrees разез bases bases bases pMol m **⊞**Mo1 21-mer DNA Oligonucleotide (Sense) 0.6 25.0 ACA Parameter's 000 O Hairpin loop stem length ACT c|Formamide concentration Analysis 00000 concentration G Temperature concentration Palindrome length 2-oligo dimers 2-oligo bulges 2-oligo internals Structoral Analysis Summary ATA degrees c||3' End length Run length / palindromes Delta CProbe Salt Analysis of "table 20 (TCMB primer 125-L)" CAG nMo1/A260 42.9 % -31.7 kCal/Mol -159.4 kCal/Mol -3.9 kCal/Mol 66.9 degrees ug/A260 degrees degrees internal loops hairpin loops bulge loops GCC base runs 60.0 4.8 51.6 30.6 59.2 Oligonucleotide Analysis dimers AAA of of οĘ Number Number Number Number Molecular weight Th thermodynamic Ü 3' End Delta Percent GC Absorbance Absorbance Filter Im AT+GC Tm Delta S Delea M Dalta G 4 GC Th Ŋ

Ana1y	sis of	"table 21	Analysis of "table 21 (PCMB primer 16s-H)" a 22-mer DNA Oligonucleotide (Antisense)	" (H-S91 :	а 22-тег DW	A Oligonuc	leotide (Ant	tser	ise)
5	CGT	CTI	GIT CIG AIG AIG AIG IGC I	ATG	ATG	ATG	TGC	H	m
	Oligon	Oligonucleotide Analysis	Analysis			Analysis	Analysis Parameters		
Molecular weight	weight		6867.5	De	Delta G Temperature	rature	25	25.0 c	degrees
The thermodynamic	menic		64.7 degrees	U	C Probe concentration	ration	C	O.6 PMOL	Mol
Filter Im			57.1 de	grees C Sa	57.1 degrees C Salt concentration	ration	1000	1000.0 mMol	Mol
SC TH			69,5 de	grees C Fo	degrees C Formamide concentration	centration		. 0	
AT+GC TE			64.0 de	grees C 3'	64.0 degrees C 3' End length				bases
Absorbance			4.9 PM	nWol/A260 Run length	n length			D D	bases
Absorbance			33.4 ug/A260		Palindrome length	ngth		Д 89	bases
Percent GC			45.5 %	HA	Hairpin loop stem length	stem lengt	£	E,	bases
Delta G			-33.0 kcal/Mol		ı	•			
Delta H			-150.2 kc	kCal/Mol					
Delta S			-385.9 eu						
3. End Delta	(b)		-6.3 kCal/Mol_	al/Mol					
			Struct	ural Analy	Structural Analysis Summary				
		Number o	of base runs	/ pal	/ palindromes	/ 0			-
			of hairpin loops			0			
		Number o	of dimers	`	2-oligo dimers	/ 0	0		
		Number of	f bulge loops	`	2-oligo bulges	/ 0	0		
		Number o	of internal loops	\	2-oligo internals	1) s 0 /	0		

r DNA Oligonucleotide (Sense)	AG TAT G 3'	Delta G Temperature 25.0 degrees C 8 to concentration 0.6 pMol 0.6 pMol 0.6 pMol 0.0 mbol 0.0 % 7 bases Run length 8 bases Hairpin loop stem length 3 bases	<u>۲</u>	0 / 0	
f "table 22 (PCMB primer 16S-L)" a 19-mer DNA Oligonucleotide (Sense)	S ATT CCT TCC TCT TAG TAT G	oligonucleotide Analysis eight 5799.8 49.5 degrees C Probe concentration 41.9 degrees C Salt concentration 61.1 degrees C Salt concentration 52.0 degrees C 3' End length 53.6 ug/A260 Run length 33.6 ug/A260 Palindrome length -26.1 kCal/Mol -371.5 au 1 G -3.1 kCal/Mol	Structural Analysis Summary	Number of base runs / palindromes	Number of dimers / 2-oligo dimers Number of bulge loops / 2-oligo bulges Number of internal loops / 2-oligo internal
Analysis of	₫	Molecular weight The thermodynamic Filter The G The AT+GC The Absorbance Percent GC Delta G Delta S 3' End Delta G			

(1) Analysis of "table 23 (PCMB primer 12S-H)" a 22-mer DNA Oligonucleotide(Antisense)

TAC

ひひひ

ATG

ACT

CTL

GAA

GCT

D

υ degraes bases bases bases bases pMol **1**0至 25.0 0.6 1000.0 60 Parameters Halrpin loop stem length Formamide concentration Analysis concentration G Temperature concentration Run length Palindrome length 3' End length Delta Probe salt degrees C E degrees C E degrees C E nmol/A260 R degrees C 69.5 degrees C 64.0 degrees C 5.0 nMol/A260 33.6 ug/A260 45.5 % -32.7 kCal/Mol 52,7 60.3 Oligonucleotide Analysis Molecular weight To thermodynamic Absorbance Absorbance Percent GC Filter Im AT+GC TH ◆ GC Tel Delta G

000 0 00000 2-oligo dimers 2-oligo bulges 2-oligo internals / palindromes internal loops hairpin loops bulge loops base runs dimers οĘ Number of Number of O. οĮ Number Number Number

Structural Analysis Summary

-6.6 kcal/Mol

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Delta

Delta H Delta S

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-435.2

Analysis of "table 24 (PCMB primer 12S-L)" a 20-mer DNA Oligonucleotide (Sense)

_ເ ປ	CCG	ATT	GAC	CCC	ATT GAC GCC GAA CTA TG	CTA	TG 3'	
0.	igonucleo	Oligonucleotide Analysis	sis		Ana	Analysis Parameters	meters	
Molecular weight	ght	919	6182.1	Delta	Delta G Temperature	re	25.0 degrees C	0
Im thermodynamic	nic	49	8.1 degree	B C Probe	68.1 degrees c∥Probe concentration	no	0.6 pMol	
Filter Tm		•	0.5 degree	a C Salt	60.5 degrees C Salt concentration	no	1000 0 mMol	
* GC Th		7	0.3 degree	s C Formam	70.3 degrees C Formamide concentration	ration	80.0	
AT+GC Th		U	62.0 degrees C 3' End length	a C 3' End	length		7 bases	
Absorbance			5.3 nMol/A260 Run length	260 Run le	ngth		9 bases	
Absorbance		מז	32.5 ug/A260	_	Palindrome length		nontia B	
Percent GC		LT)	55.0 %	Hatrpi	Hairpin loop stem length	length		
Delta G		E. 1	-35.6 kCal/Mol		•			-
Delta H		-15	-159.4 kCal/Mol	Lo To				
Delta 8		1	-408.5 eu					
3' End Delta G	79	•	-4.1 KCm1/Mol	— To				

Number of base runs / palindromes 0 / 0
Number of hairpin loops / 2-oligo dimers 0 / 0
Number of dimers / 2-oligo bulges 0 / 0
Number of bulge loops / 2-oligo bulges 0 / 0
Number of internal loops / 2-oligo internals 0 / 0

Structural Analysis Summary

Analysis of "table 25 (SLMB primer 165-H)" a 18-mer DNA Oligonucleotide (Antisense)

īÙ	TAC	GCA	TAA	ອອວ	TAC GCA TAA CGG CTC TGG	TGG	m -
01 1 go	Oligonuclectide Analysis	Analysis			Analys	Analysis Parameters	27.9
Molecular weight		5579.7		Delta G Te	Delta G Temperature		25.0 degrees
The thermodynamic		61.4	degrees C	61.4 degrees C∥Probe concentration	entration		
Filter Im		53.8	degrees C	53.8 degrees Calt concentration	entration		1000.0 mMol
* GC Tm		66.8	degrees C	Formamide	66.8 degrees C Formamide concentration	ton	- C
AT+GC TH		56.0	degrees C	56.0 degrees C 3' End length	ıgth		7 bases
Absorbance		8.8	nMo1/A260	5.9 nMol/A260 Run length	`_		4 0 0 0 0
Absorbance -		32.8	32.8 ug/A260	Palindrome length	length		essed B
Percent GC		55.6 %	æ	Hairpin lo	Hairpin loop stem length	ngth	
Delta G		-31.0	-31.0 kCal/Mol	1	ı	•	
Delta H		-143.5	-143.5 kcal/Mol				
Delta 9		-370.2 eu	10				
0 14 C C PUG 16		•	,				

000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals Structural Analysis Summary / palindromes bulge loops internal loops of hairpin loops base runs dimers Number of Number Number Number Number

70.2 eu -7.9 kCal/Mol

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3' End Delta

M Analysis of "table 26 (SLMB primer 16S-L)" a 22-mer DNA Oligonucleotide (Sense) H ATC TAC CTA I)

Oligonucleotide Analysis	Analysis			Analysis Parameters	meters	
Molecular weight	6639.4		Delta	Delta G Temperature	25.0	25.0 degrees C
Tm thermodynamic	52.4	degrees C	Probe	52.4 degrees C Probe concentration	0.6 pMol	pMol
Filter Im	44.8	degrees C	Salt	44.8 degrees call salt concentration	1000.0 mMol	mMo1
* GC Th	67.6	dagrees C	Forma	67.6 degrees C Formamide concentration	8 0.0	*0
AT+GC TH	62.0	62.0 degrees C 3' End length	3, 67	d length	7	bases
Absorbance	6.9	4.9 nMol/A260 Hun length	Hun 1	ength	6	bases
Absorbance	32.8	32.8 ug/A260	Palin	Palindrome length	80	basas
Percent GC	40.9 B	ď	Hairp	Hairpin loop stem length	m	bases
Delta G	-27.6	-27.6 kCal/Mol	•			
Delta H	-146.8	-146.8 kCal/Mol				
Delta s	-392,2 ou	no				
3' End Delta G	-3.8	-3.8 kCal/Mol_				

Number of base runs / palindromes 0 / 0 Number of hairpin loops / 2-oligo dimers 0 / 0 Number of bulge loops / 2-oligo bulges 0 / 0 Number of internal loops / 2-oligo internals 0 / 0

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Oligonucleotide Analysis

		25.0 degrees (ריאמ א ט	70.00	TOWN O'COOT	æ 0.0	40 LET 7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		S DESGS	agrad 6	1			
Analysis Parameters	10 1 to 10 10 10 10 10 10 10 10 10 10 10 10 10	person a rembersence	58.4 degrees C Probe concentration	50.8 degrees C∜Salt concentration		Control of the contro	3' End length	Run length		יייייייייייייייייייייייייייייייייייייי	Rairpin loop stem length				
Uligonucleotide Analysis	5708.B		58.4 degrees C∥	50.8 degrees C	0 000000 000	1 4B015B1 - 1 67	ou.U degrees C∥3' End length	6.1 nMol/A260 Run length	35.0 ug/A260			-29.4 kCal/Mol	-138.5 kCal/Mol	-359.0 eu	-5.4 kCal/Mol
Oligonuci	MOLGGILAT Weight	The thermodynamic		TT. Jest TI	SC Te	AT+GC Tm		Abborbance	Absorbance	Percent GC			Delta H	Delta s	3' End Delta G

000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals Structural Analysis Summary Palindromes bulge loops internal loops hairpin loops Number of base runs dimers 0 0 0 0 H H H H Number Number Number Number

Analysis of "table 28 (SLMB primer 12S-L)" a 21-mer DNA Oligonucleotide(Sense) 3 GCT TOL TCA CAA CTA TAA 10)

degrees bases bases bases bases pMol 디 0.6 25.0 400 Parameters Halrpin loop stem length Formamide concentration Analysis G Temperature concentration concentration Run length Palindrome length 3' End length Delta Probe Salt 50.9 degrees C F 60.0 degrees C 3 5.1 nMol/A260 R 5.1 nMol/A260 R 42.9 % C 2.9 % C 2.9 % C 2.9 % C 2.9 % C 30.8 KCal/Mol -153.4 kCal/Mol -6.3 kCml/Mol 58.5 degrees -403.9 Analysis Oligonucleatide thermodynemic weight Ü 3' End Delta Absorbance Absorbance Persont GC Molecular Filter Tm AT+GC Im GC TH Delta H Dalta G Dalta

000 00000 2-oligo dimers 2-oligo bulges 2-oligo internals Structural Analysis Summary / palindromes loops hairpin loops bulge loops base runs internal dimers 0 £ 0 £ Number Number Number Number Number